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2 Claims
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4 1. A bearing arrangement for vibrantly supporting a
5 grinding disk (24) on a grinding apparatus (10), in
6 particular in a vibrating grinder, having a plurality of
7 elastic vibration bodies (48), which can be connected on the
8 one hand to the grinding disk (24) and on the other to the
9 grinding apparatus (10), characterized in that the vibration
10 bodies (48) are disposed, individually or in groups of a
11 plurality of vibration bodies (48) each, in a plurality of
12 modules (42) that are separate from one another.
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14 2. The bearing arrangement of claim 1, characterized in
15 that the individual modules (42) have a bayonet mount for
16 mounting them on the grinding apparatus (10).
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18 3. The bearing arrangement of at least one of the
19 foregoing claims, characterized in that the modules (42) each
20 have one groove (64) and/or one tongue, in order in the
21 mounted state to form a tongue-and-groove connection between
22 adjacent modules (42).
23

24 4. The bearing arrangement of at least one of the
25 foregoing claims, characterized in that the individual
26 modules (42) each have one mounting body (44) for fastening
27 to the grinding apparatus (10) and one guide body (46) for
28 guiding the grinding disk (24), and the mounting body (44) is
29 joined to the guide body (46) in a manner capable of
30 vibration by means of at least one of the vibration bodies
31 (48).
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33 5. The bearing arrangement of claim 4, characterized in
34 that the guide body (46) of the individual modules (42) has a

1 screw receptacle (50) for receiving a fastening screw.

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3 6. The bearing arrangement of claim 4 and/or claim 5,
4 characterized in that the guide body (46), for making a
5 positive-engagement connection with a fastening receptacle in
6 the grinding disk (24), has a suitably adapted protrusion
7 (52) on its side toward the grinding disk (24).

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9 7. The bearing arrangement of claim 6, characterized in
10 that the protrusion (52) on the guide body (46) is non-
11 round.

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13 8. The bearing arrangement of at least one of claims 4
14 through 7, characterized in that the mounting body (44) is
15 platelike and on one side edge has at least one recess (54.1,
16 54.2) for a suitably adapted tongue (56.1, 56.2) on the
17 grinding apparatus (10).

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19 9. The bearing arrangement of claim 8, characterized in
20 that the platelike mounting body (44) has at least one
21 protrusion (58), in order in the mounted state to form a
22 frictional engagement connection with a friction face on the
23 grinding apparatus (10).

24
25 10. The bearing arrangement of at least one of the
26 foregoing claims, characterized in that the mounting body
27 (44), on the side toward the grinding apparatus (10) and/or
28 on the side remote from the grinding apparatus (10), has a
29 tongue (60, 62), which in the mounted state forms a tongue-
30 and-groove connection with a suitably adapted groove on the
31 grinding apparatus (10).

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33 11. A grinding or polishing apparatus having a bearing
34 arrangement of at least one of the foregoing claims.